



Supplemental Figure 6: Calculation of genetic correlations. An example of a trivariate model where observed traits (QT, TpTe and Th) are influenced by additive genetic factors (A1-A3) and unique environmental factors (E1-E3). In this example, R_{A1A2} represents the genetic correlation between QT and TpTe, R_{A1A3} represents the genetic correlation between QT and Th, and R_{A2A3} represents the genetic correlation between TpTe and Th. The genetic correlation between QT and TpTe, for example, is calculated as follows: $R_{A1A2} = \text{covariance}(A1, A2) / \sqrt{(\text{variance}(A1) * \text{variance}(A2))}$ and indicates to what extent the same genes are involved in the manifestation of both QT and TpTe.